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Issued on
October 18, 1932

IMPERIAL PATENT OFFICE

PATENT SPECIFICATION

No. 561 757

Class 30 d Group 17

H 128753 IX/30 d

Date of Publication of the Granting of Patent:
September 29, 1932

Georg Heuchemer in Stuttgart-Cannstadt

Bell-Shaped Vaginal Pessary

561 757

Georg Heuchemer in Stuttgart-Cannstadt

Bell-Shaped Vaginal Pessary

Patented in the German Empire from September 30, 1931

The present invention pertains to an especially expedient form and handling of inflatable vaginal pessaries, in which the pessaries can be emptied by a simple movement.

Inflatable vaginal pessaries with feed lines for air and medicinal liquids, which can be drained off when necessary, have been known.

The novelty is that the inflatable part is fastened, in a particularly advantageous manner, by means of perforated, air-guiding screws, and that emptying can be performed in an especially simple manner.

An exemplary embodiment is shown in the drawing.

According to Figure 1, a rubber tube *c* is fastened by means of a perforated screw *b* to a fixed bottom part *a* made of light metal or hard rubber in a turned groove of such a shape that a bell-shaped tube, which covers the head of the uterus and is at the same time sealingly pressed against the walls of the vaginal canal, is formed upon inflation, so that displacement is ruled out. The cover *d* screwed into the bottom part *a* contains the spring-tensioned plate *f* acting as a check valve and the air feed tube *c*. After introduction by means of the tube *c* and after the pessary has been inflated with compressed air, it may be worn for as long as needed, because the tube *c* can be screwed off.

However, to make it possible to pump a medicinal fluid between the uterus and the pessary, a tube *g* is screwed into the cover *d*, through which the liquid is pumped into the desired space in the known manner by means of a hole *g'* and the rubber valve *h* acting as a check valve.

The pessary is emptied by pushing in the pin *i*, which is fastened to the valve plate *f*, with the fingernail, as a result of which the plate *f* is raised and the compressed air can escape. The pessary can now be easily removed from the vagina. Liquid that may have been pumped in can flow off by itself.

According to another embodiment, the cover *d* for accommodating the drain tube *k* is provided, according to Figure 2, with another threaded hole and a hole *k'*, so that the liquid pumped in through the tube *g* and the valve *h* can flow off, and irrigation of the uterus is possible without the irrigating liquid coming into contact with the vaginal walls.

Patent Claims:

1. Bell-shaped vaginal pessary, in which an inflatable soft rubber ring is fastened to a rigid bottom part, which can be introduced by means of an inserting tube, characterized in that the soft rubber ring (*c*) is inserted and screwed into a recess of the bottom part (*a*) by means of a perforated screw (*b*).

2. Vaginal pessary in accordance with claim 1, characterized in that a spring-tensioned plate valve, whose plate (*f*) can be ventilated by a pin (*i*) that can be lifted by pressing with the finger, is arranged in the bottom part (*a*) to let out the air.

3. Vaginal pessary in accordance with claims 1 and 2, characterized in that the bottom part (*a*, *d*) has a hole (*g'*), which is closed by a plate valve (*h*) and through which medicinal liquids can be pumped in by means of a feed tube (*g*).

4. Vaginal pessary in accordance with claim 3, characterized in that the bottom cover (*d*) also has a hole (*k'*), through which the irrigating liquid can flow off via a drain tube (*k*).

Attached: 1 sheet of drawings

To Patent No. 561 757
Cl. 30 d Group 17

Figure 1

KEY:

- (a) Drug
- (b) Compressed air

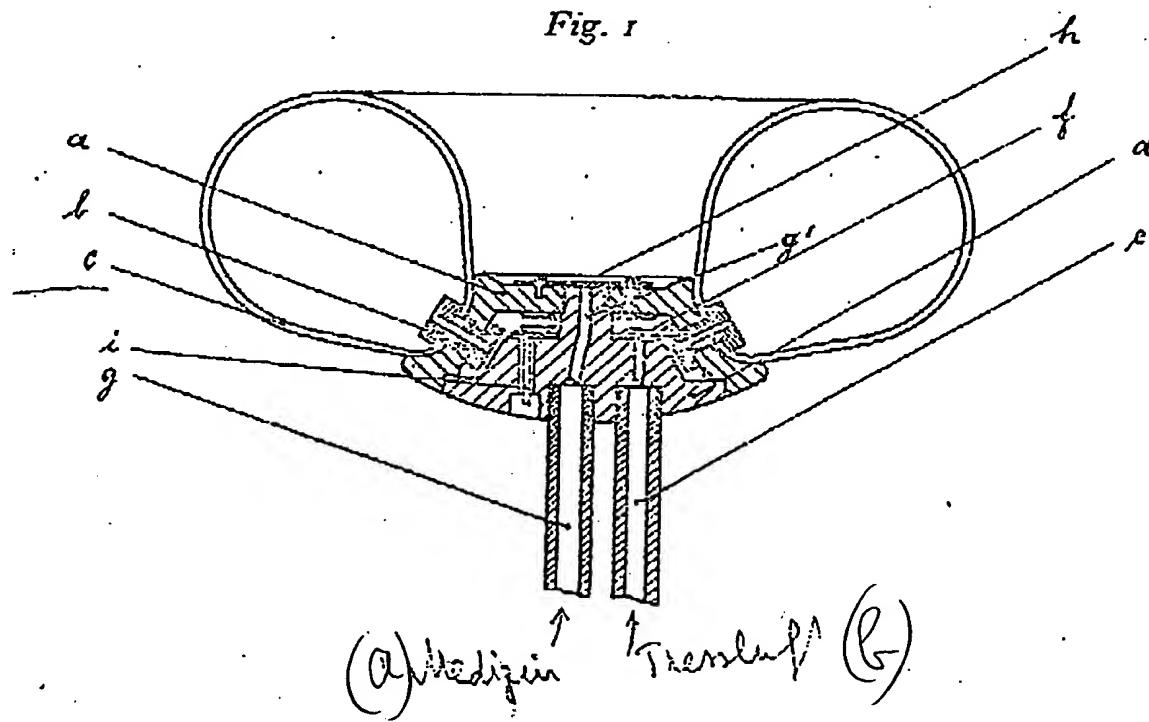
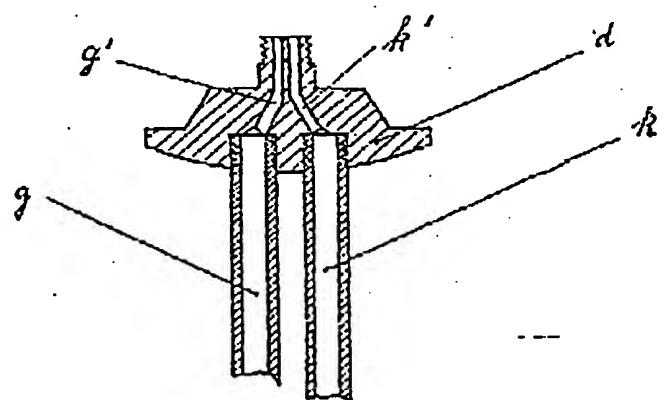


Figure 2

Fig. 2



PATENT COOPERATION TREATY

INTERNATIONAL PUBLICATION No. WO91/16030
 INTERNATIONAL APPLICATION No. PCT/US91/02329

NOTICE
 INFORMING THE APPLICANT OF
 THE COMMUNICATION OF THE
 INTERNATIONAL APPLICATION
 TO THE DESIGNATED OFFICES
 issued under PCT RULE 47.1(c),
 first sentence

DATE OF MAILING OF THIS NOTICE
 31 October 1991 (31.10.91)

APPLICANT'S OR AGENT'S
 FILE REFERENCE
 2877.1AHHD

To:

DOLEZALOVA, Hana
 Phillips, Moore, Lempio & Finley
 177 Post Street
 Suite 800
 San Francisco, CA 94108-4731
 ÉTATS-UNIS D'AMÉRIQUE

From:

The International Bureau of WIPO
 1211 Geneva 20
 Switzerland

Notice is hereby given that the International Bureau has communicated, as provided in PCT Article 20, the international application referred to above to the following designated Offices on the date indicated above as the date of mailing of this Notice:

to the national Offices of AU, CA, HU, JP, KR, SU, and to EP

The applicant is reminded that he must enter the "national phase" before each designated Office by performing, within the time limit applicable under PCT Article 22 or 39(1), the acts referred to therein.

In accordance with PCT Rule 47.1(c), third sentence, each designated Office has been informed, separately from the communication of the international application, of the sending and the date of mailing of the present notice.

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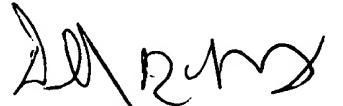
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of :
LOUIS C. ARGENTA & MICHAEL : Art Unit: 3305
J. MORYKwas :
Serial No. 08/028,677 : Examiner: J. LACY X RECEIVED
Filed: March 9, 1993 : MAR 15 1995
For: WOUND TREATMENT EMPLOYING :
REDUCED PRESSURE :
H 16 CB
GROUP 2300

Certificate of Mailing Under 37 C.F.R. §1.8(a)

I hereby certify that this correspondence is being deposited on March 6, 1995 with the United States Postal Service as first-class mail in an envelope properly addressed to COMMISSIONER OF PATENTS AND TRADEMARKS, Washington, DC 20231.

March 6, 1995
Date of Certificate


DONALD R. PIPER, JR.
Attorney for Applicant(s)
PTO Registration No. 29,337

TO: OFFICIAL DRAFTSPERSON

SUBMISSION OF FORMAL DRAWINGS

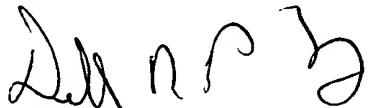
Pursuant to the Notice of Allowance issued January 5, 1995, Applicants are submitting a set of formal drawings to replace the informal drawings originally filed with the application.

In the Office Action dated January 12, 1994, the Draftsperson objected to the original informal drawings of Figs. 1-11 under 37 C.F.R. 1.84 because the lines were pale or rough and blurred and because the reference characters were poor or incorrectly sized. Some of the Figures of the informal drawings contained hand-drawn reference numerals. The formal drawings are identical to the drawings originally filed with the application except that the character of the lines has been improved so that the lines are no longer pale or rough and blurred and certain reference characters have been redone so that they are no longer poor or incorrectly

sized. As such, no new matter is being added. The Examiner's approval is therefore requested.

Respectfully submitted,

DANN DORFMAN HERRELL AND SKILLMAN
A Professional Corporation
Attorneys for Applicant(s)



DONALD R. PIPER, JR.
PTO Registration No. 29,337

Telephone: 215/545-1700
Facsimile: 215/545-2750

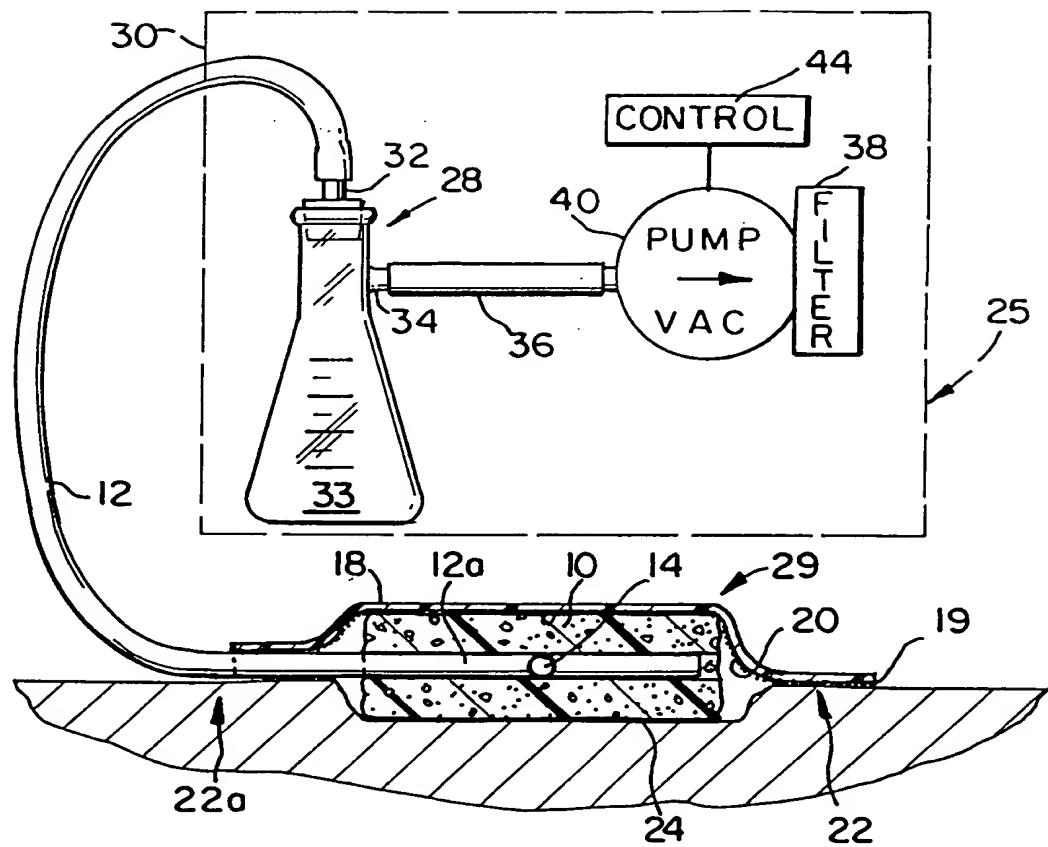


FIG. 1

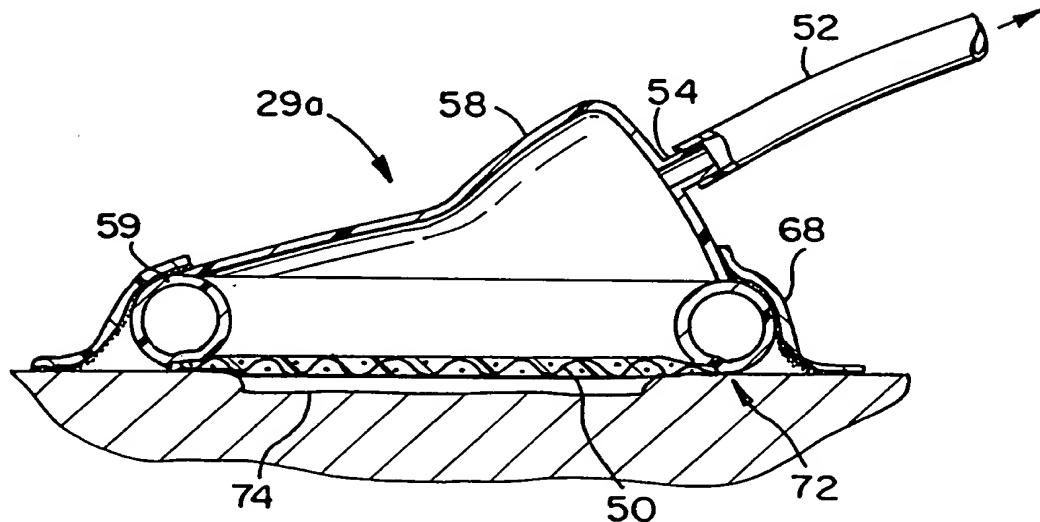
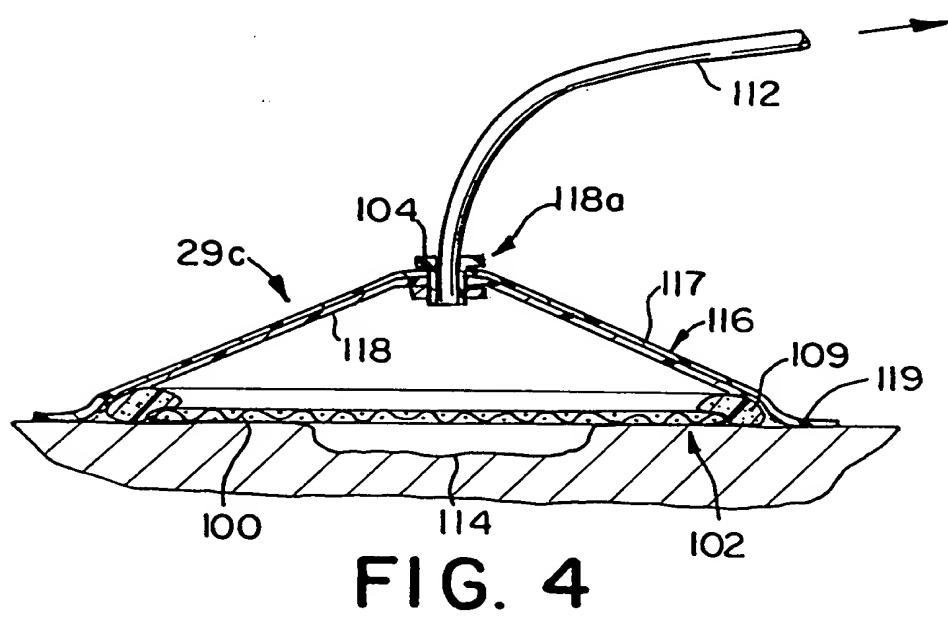
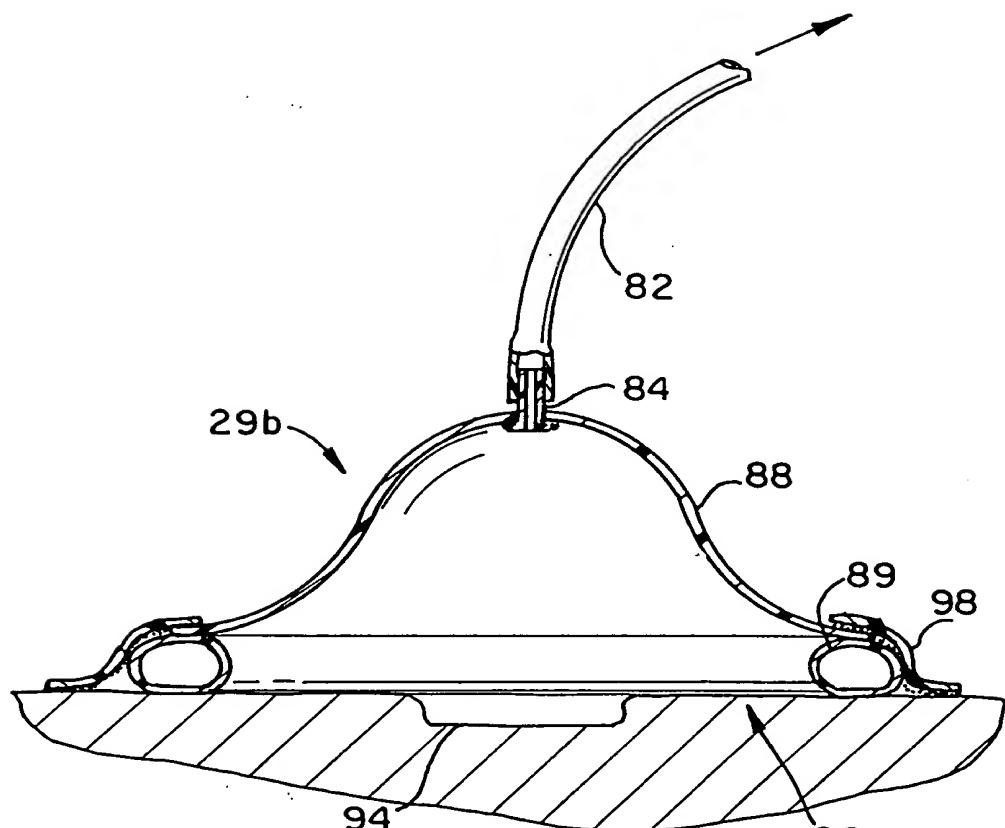
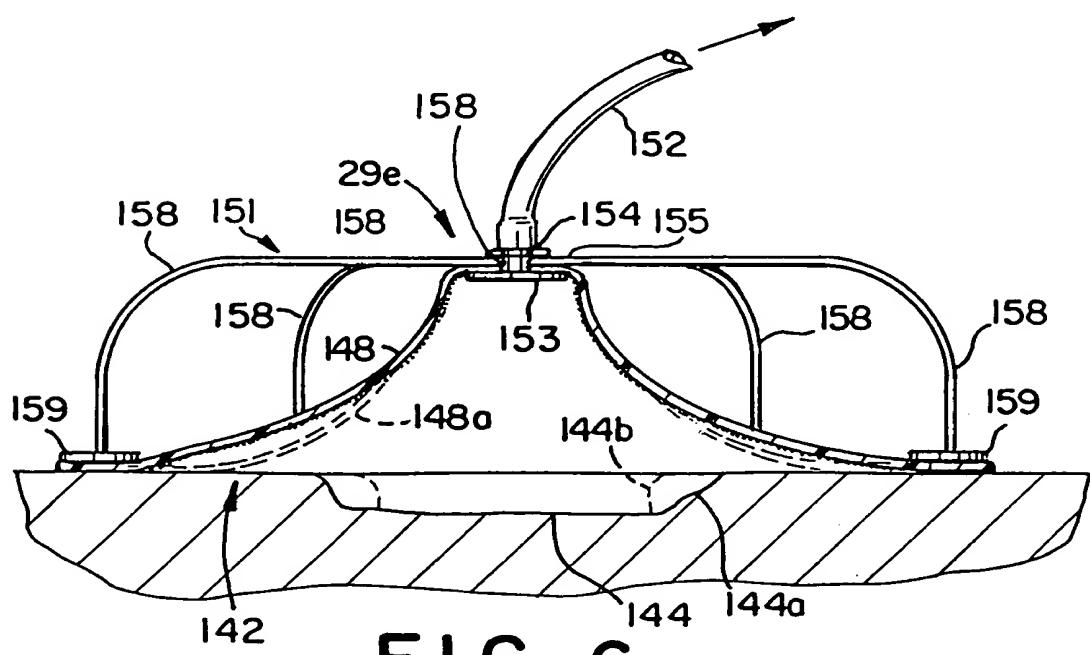
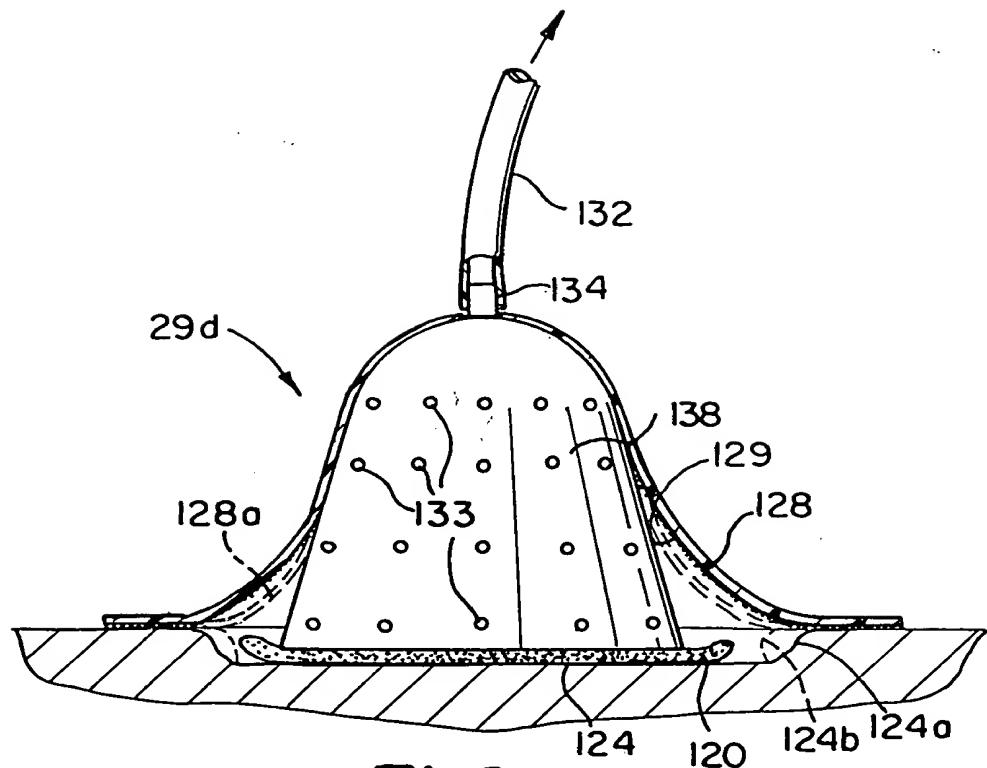


FIG. 2



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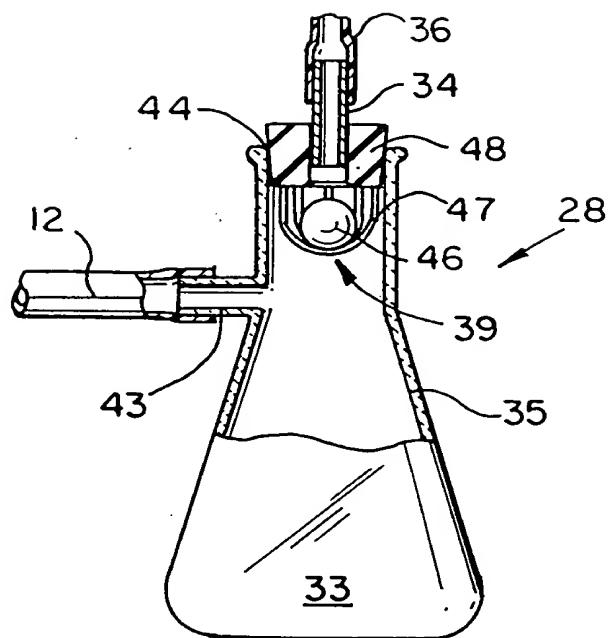


FIG. 7

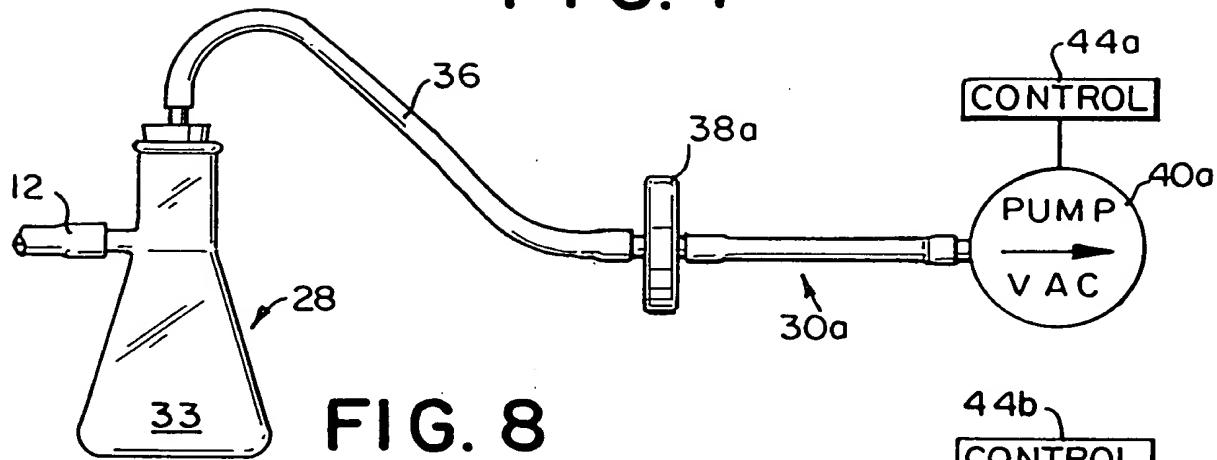
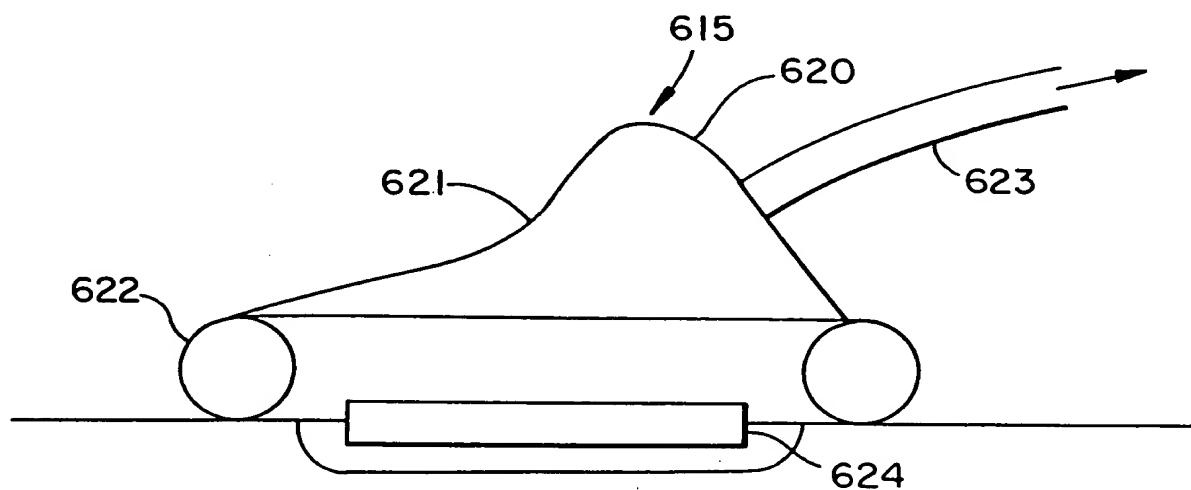
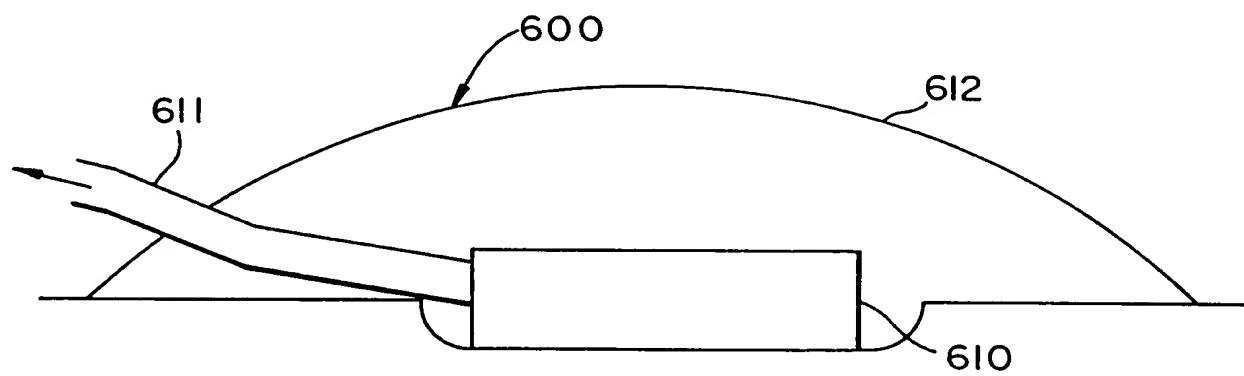


FIG. 8



FIG. 9

028677





IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

LOUIS C. ARGENTA and MICHAEL J. : ISSUE DIVISION
MORYKwas :
Serial No. 08/028,677 :
Filed: March 9, 1993 : BATCH: H65
For: WOUND TREATMENT EMPLOYING :
REDUCED PRESSURE :

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I hereby certify that this correspondence is being deposited on April 4, 1995 with the United States Postal Service as first class mail in an envelope addressed to COMMISSIONER OF PATENTS AND TRADEMARKS, Washington, D.C. 20231.

April 4, 1995
Date of Certificate

DONALD R. PIPER, JR.
Attorney for Applicant(s)
PTO Req. No. 29,337

Authorization to Charge Deposit Account

In the event that a fee is required and is not enclosed, or the check is improper, or the fee calculation is in error, the Commissioner is authorized to charge any underpayment or credit any overpayment to Deposit Account No. 04-1406 of the undersigned attorneys. A duplicate copy of this sheet is enclosed.

Notification Regarding Revocation of Small Entity Status

The small entity status for this application is hereby revoked. The rights in the patent application have been assigned to a company that is not a small entity. Accordingly, Applicants are no longer entitled to small entity status.

DANN, DORFMAN, HERRELL AND SKILLMAN
A Professional Corporation

By DONALD R. PIPER, JR.
DONALD R. PIPER, JR.
PTO Registration No. 29,337

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re the Application of

LOUIS C. ARGENTA and MICHAEL J. MORYKwas : ISSUE DIVISION

Serial No. 08/028,677 : : : : : BATCH: H65

Filed: March 9, 1993 : : : : :

For: WOUND TREATMENT EMPLOYING
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NOTIFICATION OF FEE ADDRESS

Please enter "Payor Number" No. 000110 in the Office records to identify the "Fee Address" to be used in connection with this case for all future maintenance fee payments and related correspondence.

Respectfully submitted,

DANN DORFMAN HERRELL AND SKILLMAN
A Professional Corporation
Attorneys for Applicant(s)


DONALD R. PIPER, JR.
PTO Registration No. 29,337

Telephone: 215/563-4100
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

LOUIS C. ARGENTA and MICHAEL J.
MORYKwas

Serial No. 08/028,677

Filed: March 9, 1993

**For: WOUND TREATMENT EMPLOYING
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Attorney for Applicant(s)
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By

DONALD R. PIPER, JR.

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MAILING INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE. Blocks 2 through 6 should be completed where appropriate. All further correspondence including the Issue Fee Receipt, the Patent, advance orders and notification of maintenance fees will be mailed to addressee entered in Block 3 unless you direct otherwise, by: (a) specifying a new correspondence address in Block 3 below; or (b) providing the PTO with a separate FEE AGREEMENT for maintenance fee notifications with the payment of issue fee or thereafter. See reverse for Certificate of Mailing.

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DANN, DORFMAN, HERRELL & SKILLMAN
1601 MARKET STREET, SUITE 720
PHILADELPHIA, PA 19103-2307

110
92

2. INVENTOR(S) ADDRESS CHANGE (Complete only if there is a change)

INVENTOR'S NAME

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CO-INVENTOR'S NAME

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SERIES CODE/SERIAL NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
08/028,677	03/09/93	040	LACYK, J	3305 01/05/95
First Name Applicant	ARGENTA,	LOUIS C.		

TITLE OF INVENTION WOUND TREATMENT EMPLOYING REDUCED PRESSURE

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEES DUE	DATE DUE
3	128-898.000	H65	UTILITY	YES	\$605.00	04/05/95

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Dann, Dorfman, Herrell,
and Skillman, P.C.

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SP 3305
THE UNITED STATES PATENT AND TRADEMARK OFFICE

The Patent Application of
LOUIS C. ARGENTA & MICHAEL J. MORYKwas
Serial No. 08/028,677
Filed: March 9, 1993
For: WOUND TREATMENT EMPLOYING
REDUCED PRESSURE

: Art Unit: 3305
: Examiner: J. Lacyk

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GROUP 3300

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April 3, 1995
Date of Certificate

DRP
Donald R. Piper, Jr.
Attorney for Applicant(s)

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CERTIFICATE FOR INFORMATION

DISCLOSURE STATEMENT (37 CFR 1.97(e))

I, Donald R. Piper, Jr., attorney for applicants,
hereby certify that no item of information contained in this
Supplemental Information Disclosure Statement was cited in a
communication from a foreign patent office in a counterpart
foreign application or, to my knowledge after making
reasonable inquiry, was known to any individual designated in
§1.56(c) more than three months prior to the filing of this



Supplemental Information Disclosure Statement. 37 CFR
§1.97(e) TRADEMARKS
1995

**INFORMATION DISCLOSURE STATEMENT FILED AFTER
THE ISSUANCE OF A NOTICE OF ALLOWANCE UNDER
37 CFR §1.311**

This Supplemental Information Disclosure Statement is being filed after issuance of a Notice of Allowance under 37 CFR §1.311. In accordance with the requirements of 37 CFR §1.97(d):

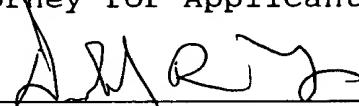
- (a) A certification is provided as specified in 37 CFR §1.97(e).
- (b) Applicant hereby petitions for the consideration of this Supplemental Information Disclosure Statement. 37 CFR §1.97(d)(ii).
- (c) Applicant submits the petition fee set forth in §1.17(i)(1). (\$130.00).

Supplemental Information Disclosure Statement

All of the references disclosed in this Supplemental Information Disclosure Statement were first disclosed to the undersigned attorney in a letter sent from a licensee of the patent application on March 27, 1995. The set of references was received by the undersigned attorney from the licensee on Friday, March 31, 1995.

Respectfully submitted,

DANN, DORFMAN, HERRELL AND SKILLMAN
A Professional Corporation
Attorney for Applicant(s)

By: 

Donald R. Piper, Jr.
PTO Registration No. 29,337

Telephone: 215/563-4100
Facsimile: 215/563-40441

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
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99 APR 7 1995
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

ATTY. DOCKET NO.

SERIAL NO. 08/028,677

APPLICANT
LOUIS C. ARGENTA and MICHAEL J. MORYKwasFILING DATE
March 9, 1993GROUP
3305 (Exmr. J. Lacyk)

U.S. PATENT DOCUMENTS

Examiner Initials		DOCUMENT NUMBER						DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
	A1	7	6	5	7	4	6	7/04	Miner	—	—		
	A2	8	4	3	6	7	4	2/07	Funk	—	—		
	A3	1	3	5	5	6	7	9	10/20	McConnell	—	—	
	A4	1	3	5	5	8	4	6	10/20	Rannels	—	—	
	A5	1	3	8	5	3	4	6	7/21	Taylor	—	—	
	A6	2	2	3	2	2	5	4	2/41	Morgan	—	—	
	A7	2	3	3	8	3	3	9	1/44	LaMere	—	—	
	A8	2	9	6	9	0	5	7	1/61	Simmons	—	—	
	A9	3	0	2	6	5	2	6	3/62	Montrose	—	—	
	A10	3	4	8	6	5	0	4	12/69	Austin, Jr.	—	—	
	A11	3	4	7	8	7	3	6	11/69	Roberts et al.	—	—	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
	B1	6	4	1	0	6	1	8/50	United Kingdom	—	—		
	B2	1	2	7	3	3	4	2	5/72	United Kingdom	—	—	
	B3	2	8	0	9	8	2	8	9/78	Germany	—	—	
	B4	WO	91	1	6	0	3	0	10/91	Published PCT	—	—	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	C1	Junod, "Hyperemia by Suction Apparatus, Chapter VIII"
	C2	Saunders, J.W., The Lancet, pp. 1286-1287, June 28, 1952, "Negative-Pressure Device for Controlled Hypotension During Surgical Operations"
✓	C3	Landis et al., Robinette Foundation of the Hospital of the University of Pennsylvania, "The Effects of Alternate Suction and Pressure on Blood Flow to the Lower Extremities"
✓	C4	Hargens et al., Space Physiology Laboratory, Life Science Division, NASA Ames Research Center, "Control of Circulatory Functions in Altered Gravitational Fields"
✓	C5	Wolthuis et al., Physiological Reviews, 54: 566-595, July 1974, "Physiological Effects of Locally Applied Reduced Pressure in Man"
✓	C6	Viljanto et al., Br. J. Surg., 63: 427-430, 1976, "Local hyperalimentation of open wounds"
✓	C7	Dillon, Angiology -- The Journal of Vascular Diseases, pp. 47-55, January 1986, "Treatment of Resistant Venous Stasis Ulcers and Dermatitis with the End-Diastolid Pneumatic Compression Boot"

EXAMINER

J. Lacyk

DATE CONSIDERED

11/26/93

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

SERIAL NO.

08/028,677

INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
LOUIS C. ARGENTA and MICHAEL J. MORYKVAS

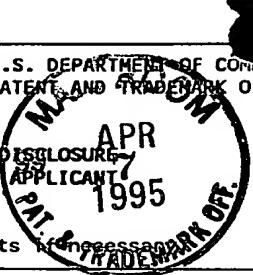
FILING DATE

March 9, 1993

GROUP

3305 (Exmr. J. Lacyk)

(Use several sheets if necessary)



U.S. PATENT DOCUMENTS

Examiner Initial		DOCUMENT NUMBER								DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<i>DK</i>	A12	3	4	8	1	3	2	6		12/69	Schamblin			
<i>DK</i>	A13	3	6	1	0	2	3	8		10/71	Rich, Jr.			
<i>DK</i>	A14	3	8	2	6	2	5	4		7/74	Mellor			
<i>DK</i>	A15	4	1	4	9	5	4	1		4/79	Gammons et al.			
<i>DK</i>	A16	4	1	7	2	4	5	5		10/79	Beaussant			
<i>DK</i>	A17	4	2	9	7	9	9	5		11/81	Golub			
<i>DK</i>	A18	4	4	6	9	0	9	2		9/84	Marshall et al.			
<i>DK</i>	A19	4	6	2	4	6	5	6		11/86	Clark et al.			
<i>DK</i>	A20	4	7	5	9	3	5	4		7/88	Quarfoot			
<i>DK</i>	A21	4	7	6	5	3	1	6		8/88	Marshall			
<i>DK</i>	A22	4	7	7	8	4	5	6		10/88	Lokken			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>DK</i>	C8	Lundvall et al., Acta Physiol Scand, <u>136</u> : 403-409, accepted Jan. 28, 1989, "Transmission of externally applied negative pressure to the underlying tissue. A study on the upper arm of man"
<i>DK</i>	C9	Klemp et al., The Journal of Investigative Dermatology, pp. 725-726 (1989), "Subcutaneous Blood Flow in Early Male Pattern Baldness"
<i>DK</i>	C 10	A. Harle, Z. Orthop., <u>127</u> : 513-517 (1989), "Schwachstellen herkömmlicher Drainagen"
<i>DK</i>	C 11	Dunlop et al., Br. J. Surg., <u>77</u> : 562-563 (1990), "Vacuum drainage of groin wounds after vascular surgery: a controlled trial"
<i>DK</i>	C 12	Maddin et al., International Journal of Dermatology, <u>29</u> : 446-450 (1990), "The Biological Effects of a Pulsed Electrostatic Field with Specific Reference to Hair: Electrotrichogenesis"
<i>DK</i>	C 13	Nakayama et al., Ann. Plast. Surg., <u>26</u> : 499-502 (1991), "A New Dressing Method for Free Skin Grafting in Hands"
<i>DK</i>	C 14	Hargens et al., Aviation, Space and Environmental Medicine, pp. 934-937, Oct. 1991, "Lower Body Negative Pressure to Provide Load Bearing in Space"

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11/20/94

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(Use several sheets if necessary)			

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C 15	Author unknown, Science, Sept. 1992, p. 42, "The Not-So-Bald-Truth"
C 16	Techno Takatsuki Co., Ltd., 8-16 Hatchonishimachi, Takatsuki City, Osaka, JAPAN, "HiBlow Air Pump"
C 17	Wells Johnson Company, 2045 N. Forbes Blvd., Suite 106, Tucson, AZ, "Suction Tips"
C 18	Industrial Equipment News, P.O. Box 1158, Skokie, IL 60076-9786, "Miscellaneous Equipment"

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